

SGS

Joint venture between SGS and IMME Mongolia

UC004418**SGS IMME Mongolia LLC**

MRN: 5616077

Energy Resource LLC

TTD: 2887746
 Central Tower, 15th Floor, Suite 7, Sukhbaatar Square 2
 Sukhbaatar District,-8
 Mongolia

LabRef: UC004418
 ClientRef **230720**
 Project Coal
 Sampletype
 Status Final
 Received 7/20/23
 Started 7/21/23
 Reported 7/23/23
 Samples 1
 FirstSample HCC_230719_1
 Pages 6

Result apply to sample as submitted.

Notes

Authorised by

On behalf of:

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 Operation Manager

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Member of the SGS Group



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SGS IMME Mongolia LLC

Uildveriin toirog 101 тоот
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Ulaanbaatar 36, Mongolia

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ANALYTICAL REPORT

Scheme	ASTM3302	ASTM3302	ISO11722:2013	ISO 1171:2010	ISO 1171:2010	ISO 1171:2010
Units	%	%	%	%	%	%
Detection Limit	0.1	0.1	0.1	0.5	0.5	0.5
Upper Limit	50	50	50	99	99	99
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
HCC_230719_1	8.91	5.41	3.70	9.56	10.11	10.50

- notanalysed | -- elementnotdetermined | I.S. insufficientsample | L.N.R. listednotreceived

Results are not intended for commercial settlement purposes.



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LabRef UC0018
ClientRef 23020
Project COAL
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ANALYTICAL REPORT

	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
Scheme	AR %	AD %	DB %	DAF %	%	%
Units	0.1	0.1	0.1	0.1	0.01	0.01
Detection Limit	75	75	75	75	100	100
Upper Limit	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
HCC_230719_1	18.91	19.99	20.76	23.20	62.61	66.19

- not analysed | -- element determined | I.S. insufficient sample | L.N.R. listed not received
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ANALYTICAL REPORT

Scheme	ISO 1213-2:2016	ISO 1213-2:2016	ISO19579:2006	ISO19579:2006	ISO19579:2006	ISO19579:2006
Units	%	%	AR %	AD %	DB %	DAF %
Detection Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	5.21	5.21	5.21	20
	FC_DB	FC_DAF	Sul_ARB	Sul_ADB	Sul_DB	Sul_DAF
HCC_230719_1	68.74	76.80	0.61	0.65	0.67	0.75

- notanalysed | -- elementnotdetermined | I.S. insufficientsample | L.N.R. listednotreceived

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ANALYTICAL REPORT

Scheme	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	ISO 501:2012	ISO 15585:2019
Units	KCAL/KG	KCAL/KG	KCAL/KG	KCAL/KG	/	/
Detection Limit	0	0	0	0	0	0
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
HCC_230719_1	6972	7371	7655	8552	7	78

- notanalysed | -- elementnotdetermined | I.S. insufficientsample | L.N.R. listednotreceived

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Description

ASTM2013 : Standard Practice for Preparing Coal Samples for Analysis
ISO11722 : Determination of moisture in the general analysis test sample by drying nitrogen
ASTM3302 : Moisture, Air-Dry Loss
ISO 1171 : Solid mineral fuels-Determination of ash
ISO501 : Hard coal-Determination of the crucible swelling number
ISO 1213-2 : Fixed Carbon (by calculation)
ISO 15585 : Hard coal-Determination of Caking index
ISO19579 : Solid mineral fuels-Determination of sulfur by IR spectrometry
ASTM3302 : Standard Test Method for Total Moisture in Coal
ISO562 : Hard coal and coke-Determination of volatile matter
ISO1928 : Coal and coke — Determination of gross calorific value

***** THE END *****